

# RAK4-T Instruction Manual

For programming information: [Wireless RAK Programming guide](#) or [Wired system Programming Guide](#)



For general system information: [Wireless RAK Application Sheet](#) or [Wired RAK Application Sheet](#)

## Overview:

A four channel dimming RAK, designed to be wall mounted in an electrical cupboard. The dimmer has 4 separate dimming channels that can control a total of 2400W/2000VA of trailing edge dimmable lighting loads. In parallel with the 4th dimmer channel is a separate switched relay channel for LEDs or Fans or other non-dimmable loads.

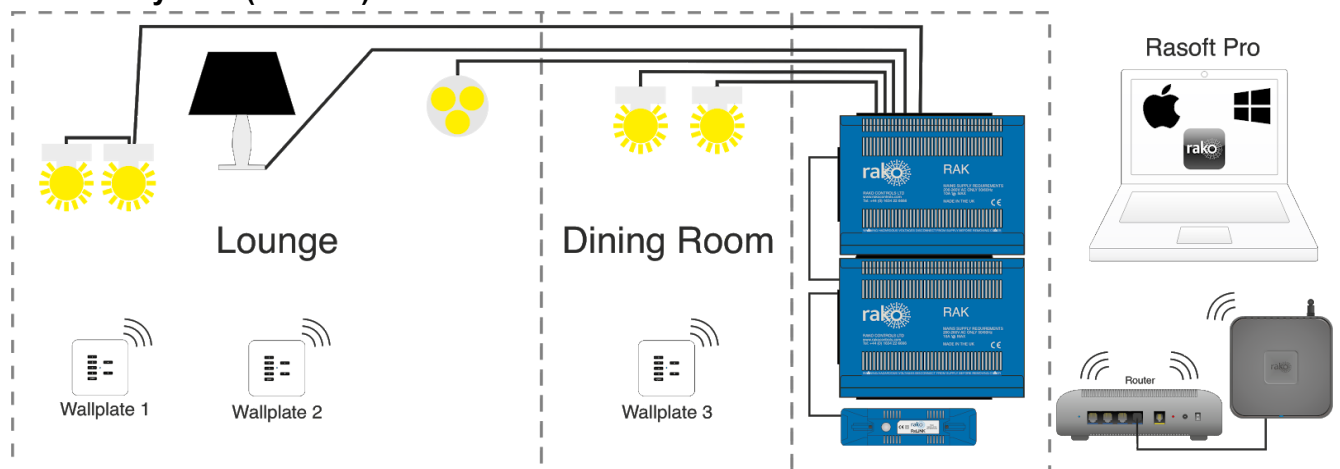
The RAK4-T is used for mains dimmable LEDs, tungsten and all other trailing edge dimmable loads.

RAK4s, combined with a Link device (RxLINK or RAK-LINK) can either be used as a single 4 channel unit or formed into a "stack".

RAK4s can be also be used in combined stacks with RAK8-MB units on the same "Link" device. Up to 8 RAK4s can be used per RAK-LINK and up to 4 RAK4s per RxLI

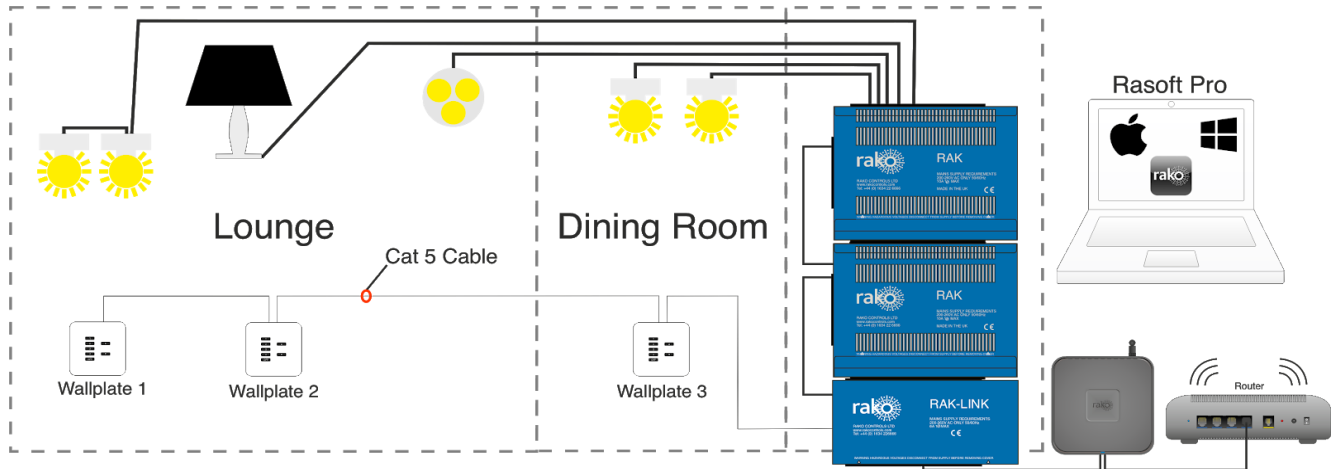
*Before commencing installation of a Rako product first read this instruction manual carefully. Rako Controls Ltd. accepts no responsibility for any damage or injury caused by incorrect installation of a Rako product. Installation should only be carried out by a qualified electrician. Always install RAK units in a well-ventilated room, with a minimum clearance of 50mm at the sides in the correct orientation i.e. vents top and bottom. Each RAK unit must be earthed.*

## Wireless system (RxLINK):



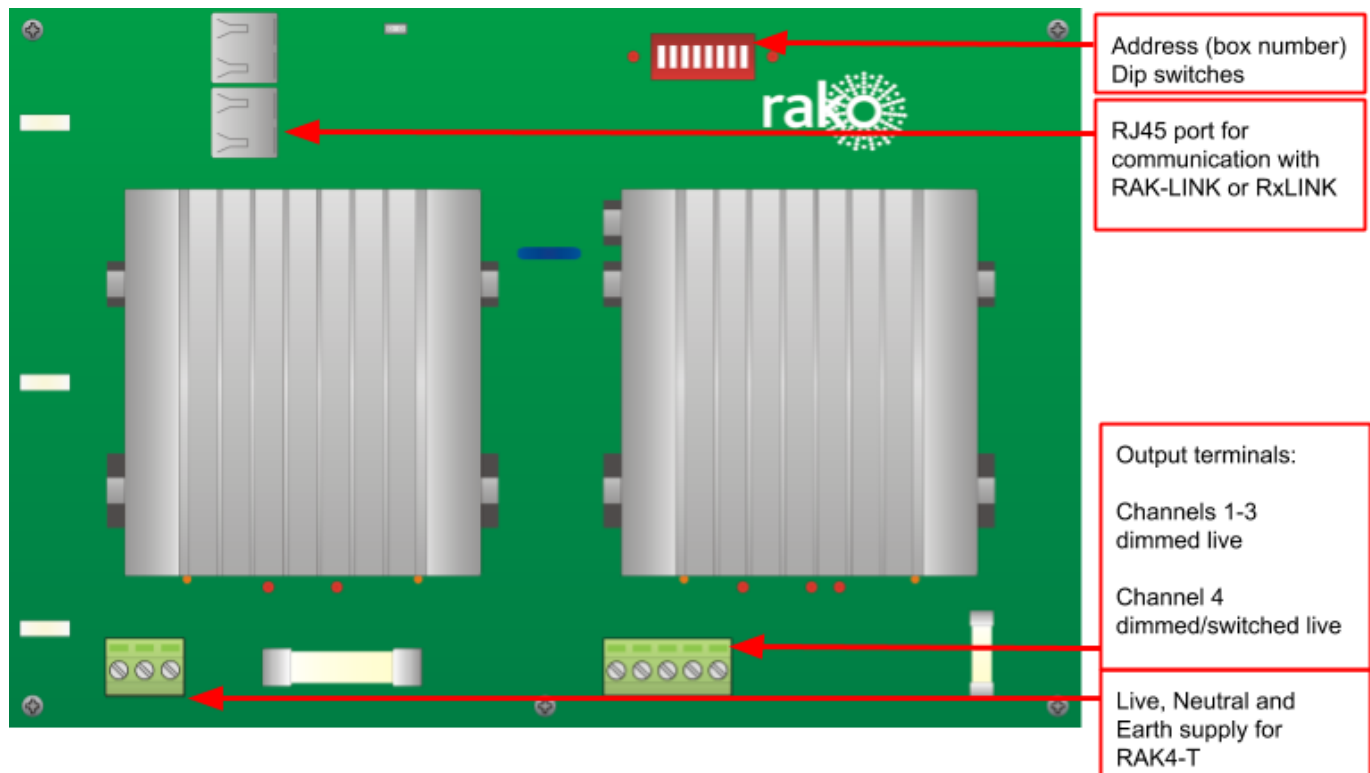
The RxLINK is used to integrate the RAK(s) into the wireless system and can support a total of 16 circuits. For example two RAK8s or one RAK8 and two RAK4s.

**Wired system (RAK-LINK):**



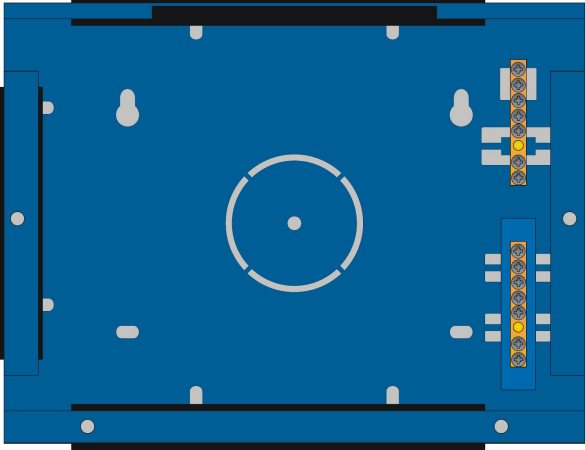
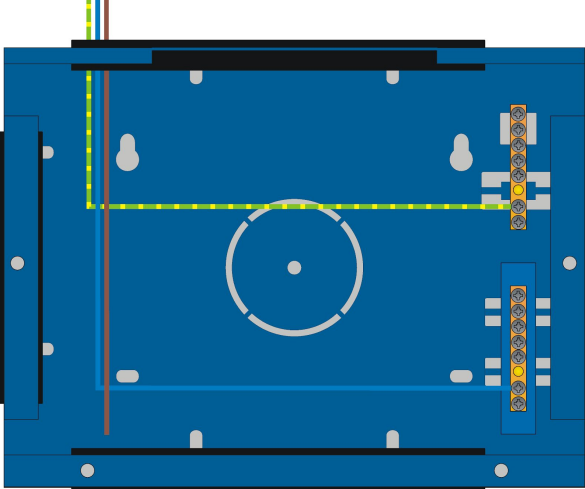
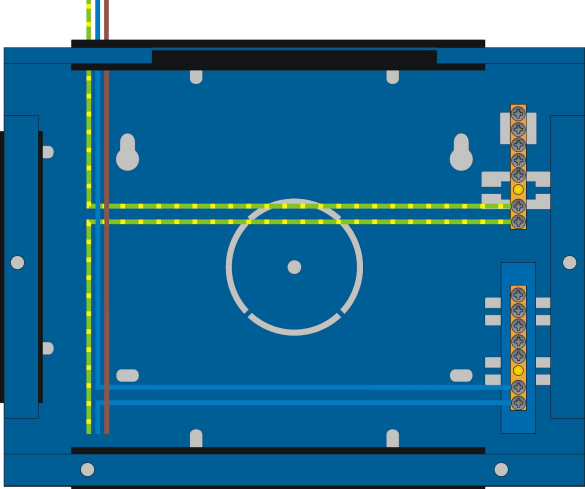
The RAK-LINK is used to integrate the RAK(s) into the Rako Wired Network and can support a total of 32 circuits. For example 4 RAK8s or 3 RAK8s and 2 RAK4s.

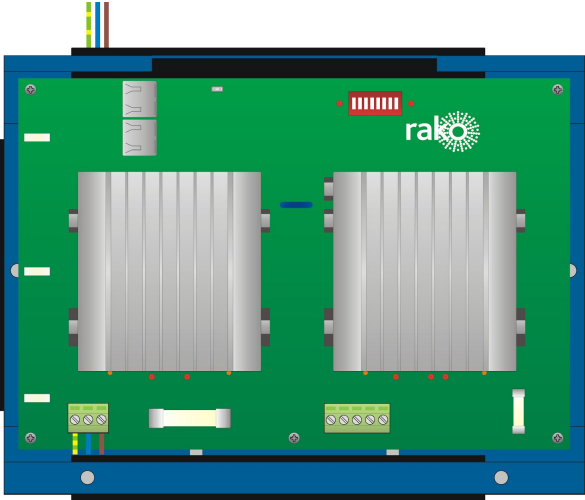
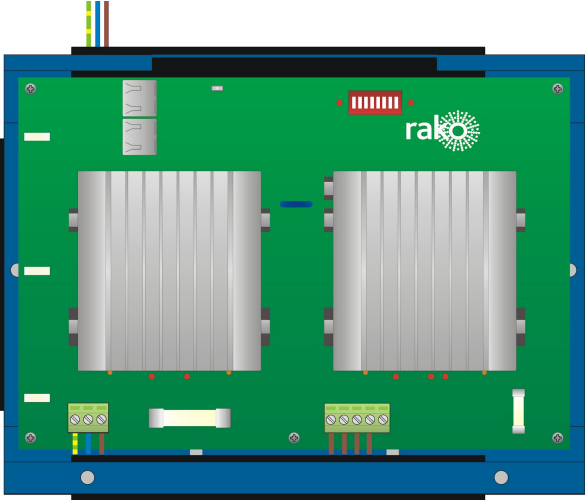
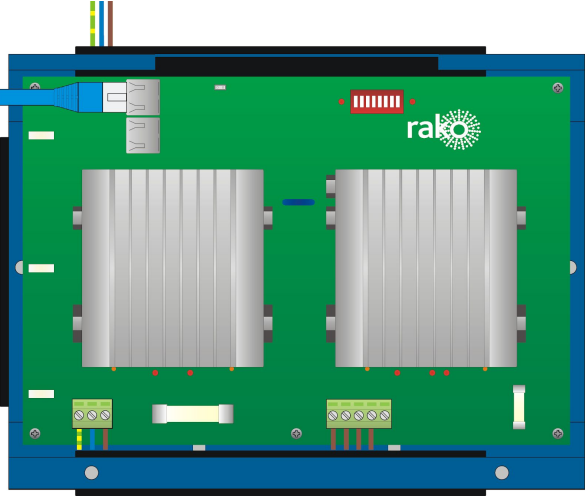
The circuit board:



## Installation:

### **POWER SHOULD BE ISOLATED THROUGHOUT THE INSTALLATION PROCESS**

<b>Step 1</b>		<p>Secure metal box housing to wall or secure mounting position.</p> <p>The RAK system relies on being vertically mounted to allow the ventilation system to work properly.</p>
<b>Step 2</b>		<p>Bring a separate 10A protected supply to each RAK case.</p> <p>Connect the Neutral and Earth to the busbars as shown.</p> <p>Bring the Live to the front of the metalwork ready for connection to the circuit board.</p>
<b>Step 3</b>		<p>Bring a single Neutral and Earth from the busbars to the front of the metalwork.</p> <p>Prepare screws on either side of metalwork ready to hold the circuit board. They should be present and screwed loosely in to the case.</p>

<p><b>Step 4</b></p>		<p>Place the circuit board on the two screws on either side of the metalwork.</p> <p>Do not screw down at this stage as the busbars need to be accessible for Neutral/Earth connections of lighting circuits.</p> <p>Connect Live, Neutral, Earth for board supply as indicated.</p>
<p><b>Step 5</b></p>		<p>Begin connecting lighting loads.</p> <p>Connect Neutral and Earth to appropriate busbars in the back of the casing.</p> <p>Make Live connections to the 5 way terminal block as shown or for as many circuits as used.</p>
<p><b>Step 6</b></p>		<p>Insert the RJ45 cable from the RAK-LINK/RxLINK into the port on the RAK and from there another RJ45 cable to each RAK in the "stack".</p> <p>Screw down the circuit board to secure it to the case and fit lid to complete installation.</p>

Rako thanks you for having purchased a Rako product and hopes that you are pleased with your system. Should for any reason you need to contact us please contact us via our website [www.rakocontrols.com](http://www.rakocontrols.com) or by phoning our customer help line on 01634 226666.

